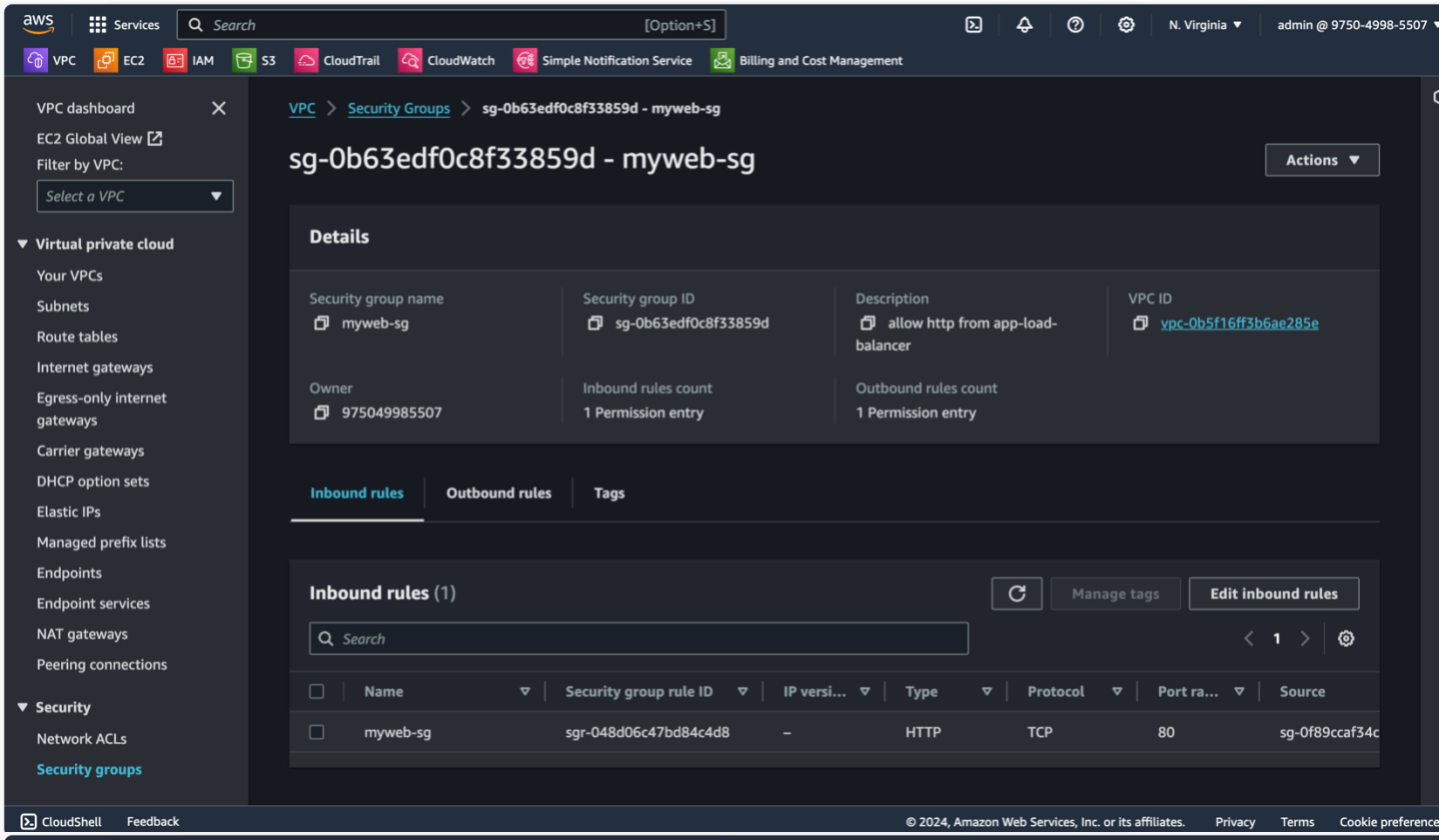
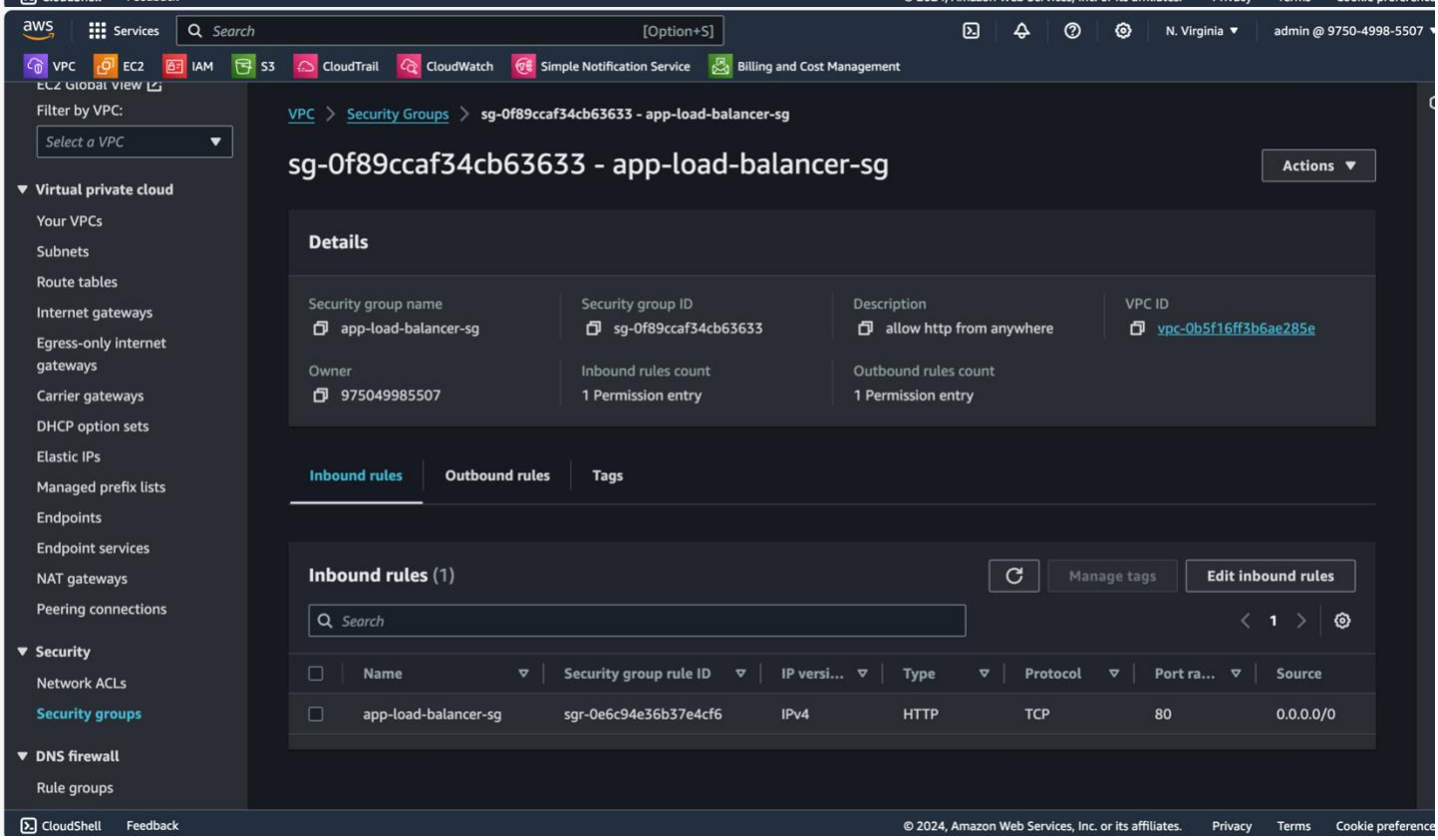
Elastic Load Balancer

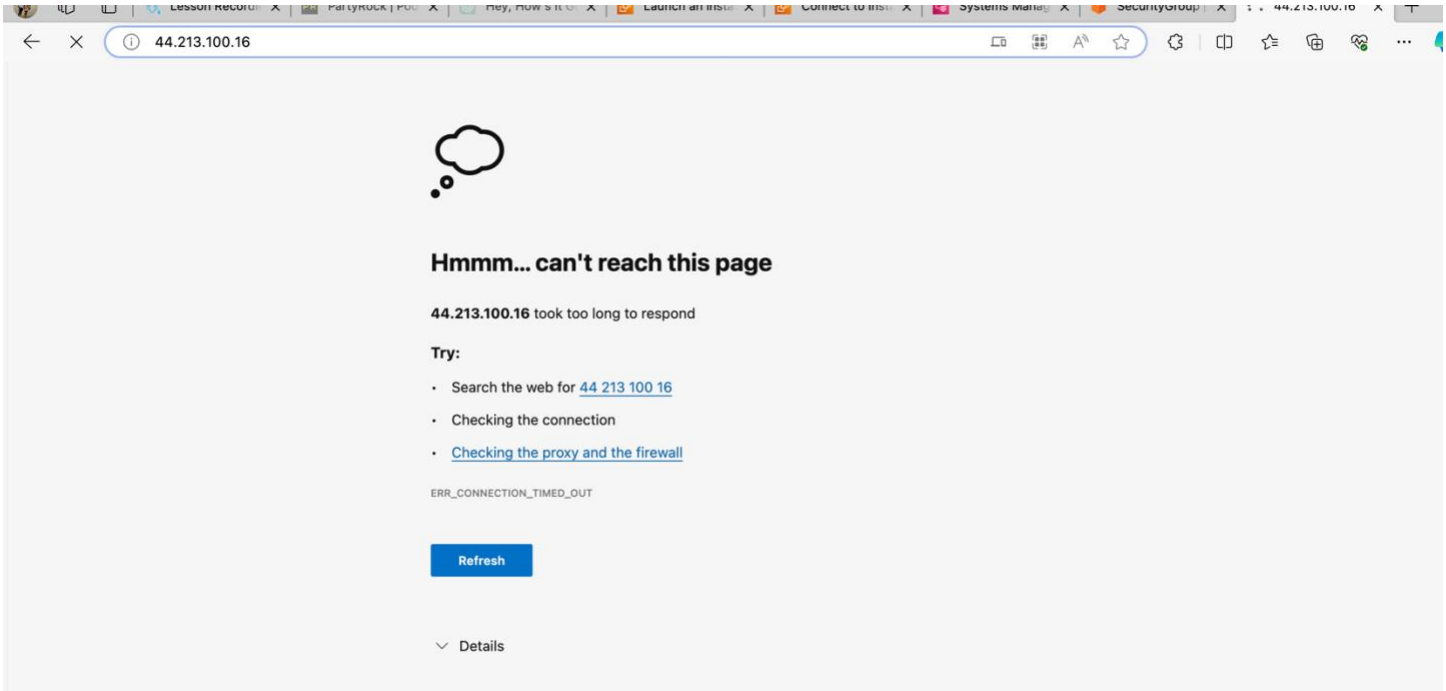
project 1: Internet-facing Load Balancer with Public Subnet

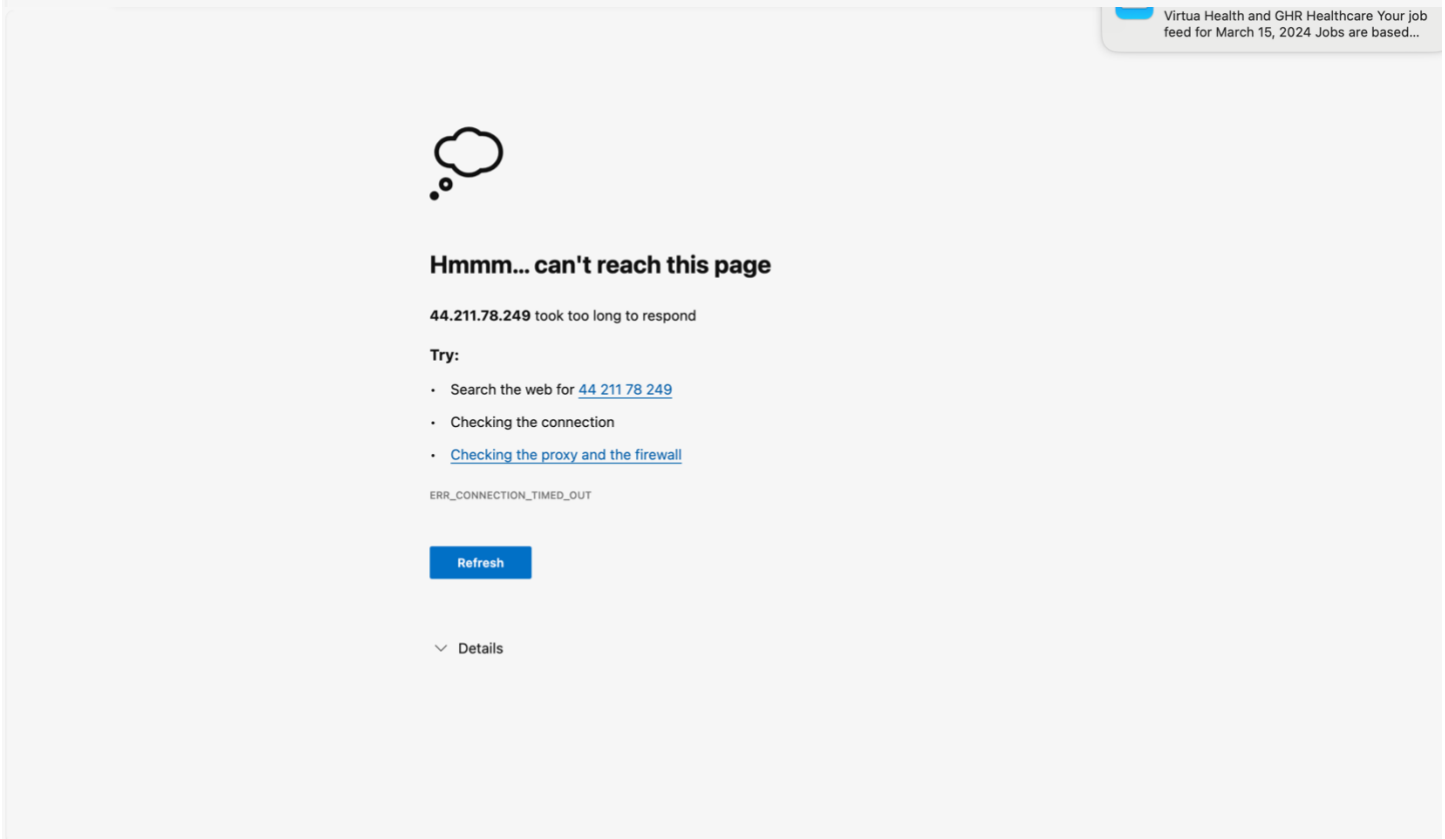
1: Creating ALB and Webserver Security Group ——> “alb_sg” and “web_sg” alb_sg should allow 0.0.0.0/0 on port 80





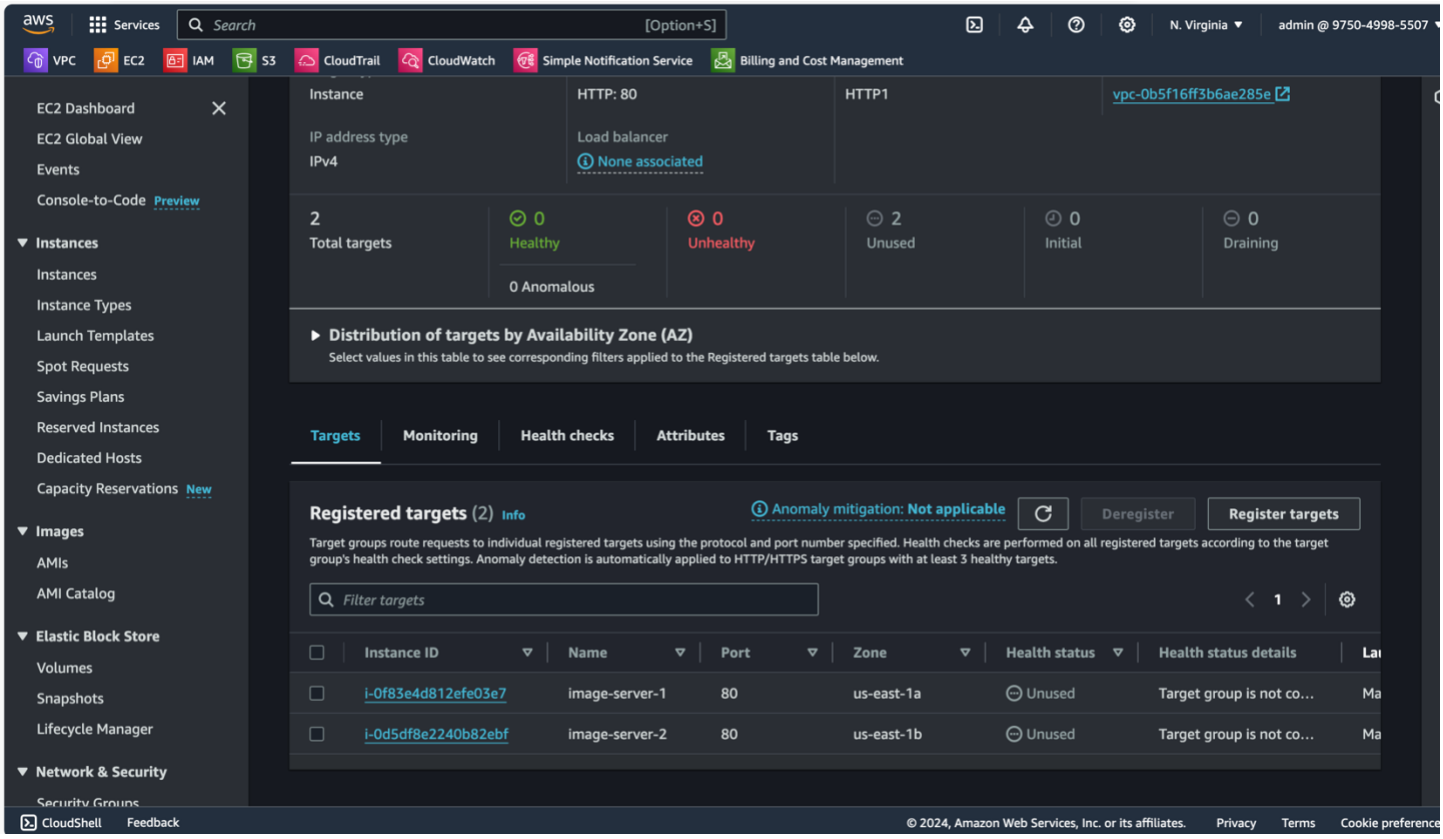
2: Create your Public webservers Image ——> tag: image_server_1 and tag: image_server_2- tesing the IP



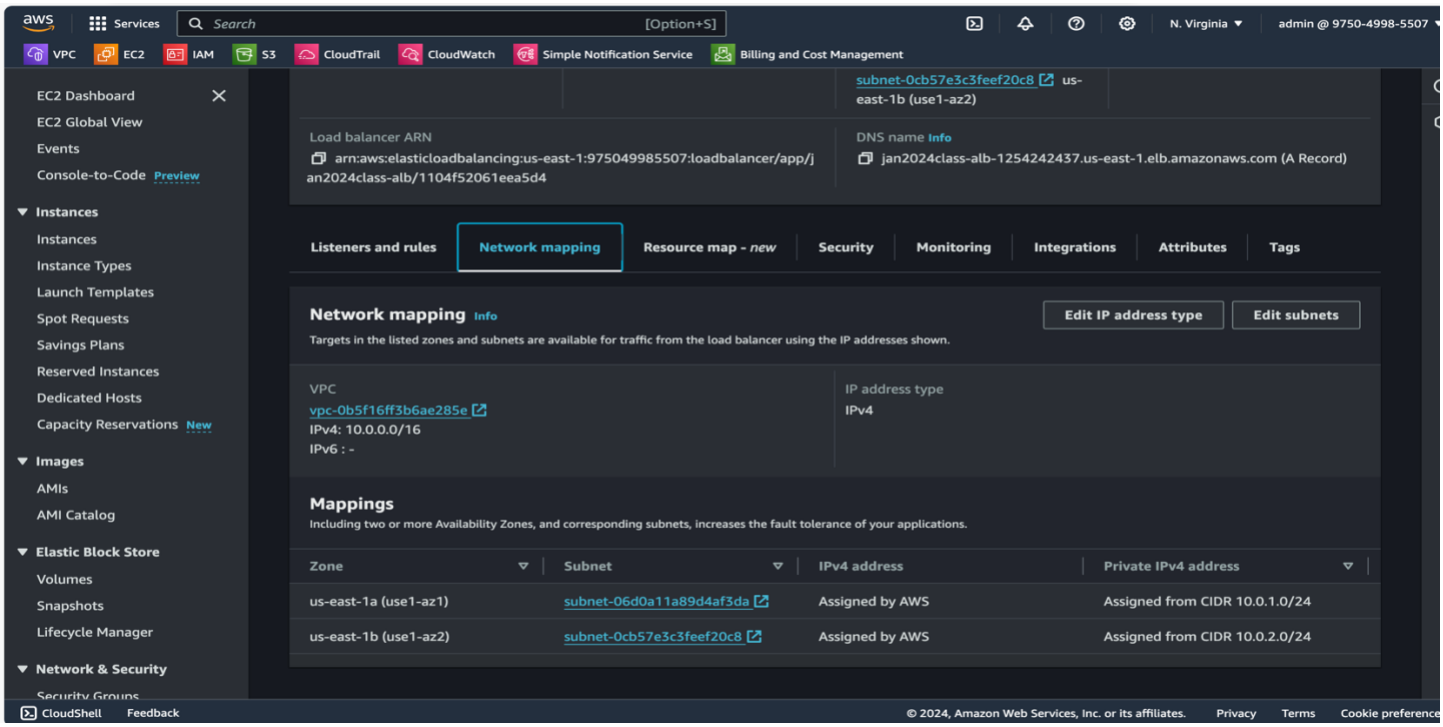


3: Create Target Group with targets (Webservers) ——> name: “jan2024class-tg”

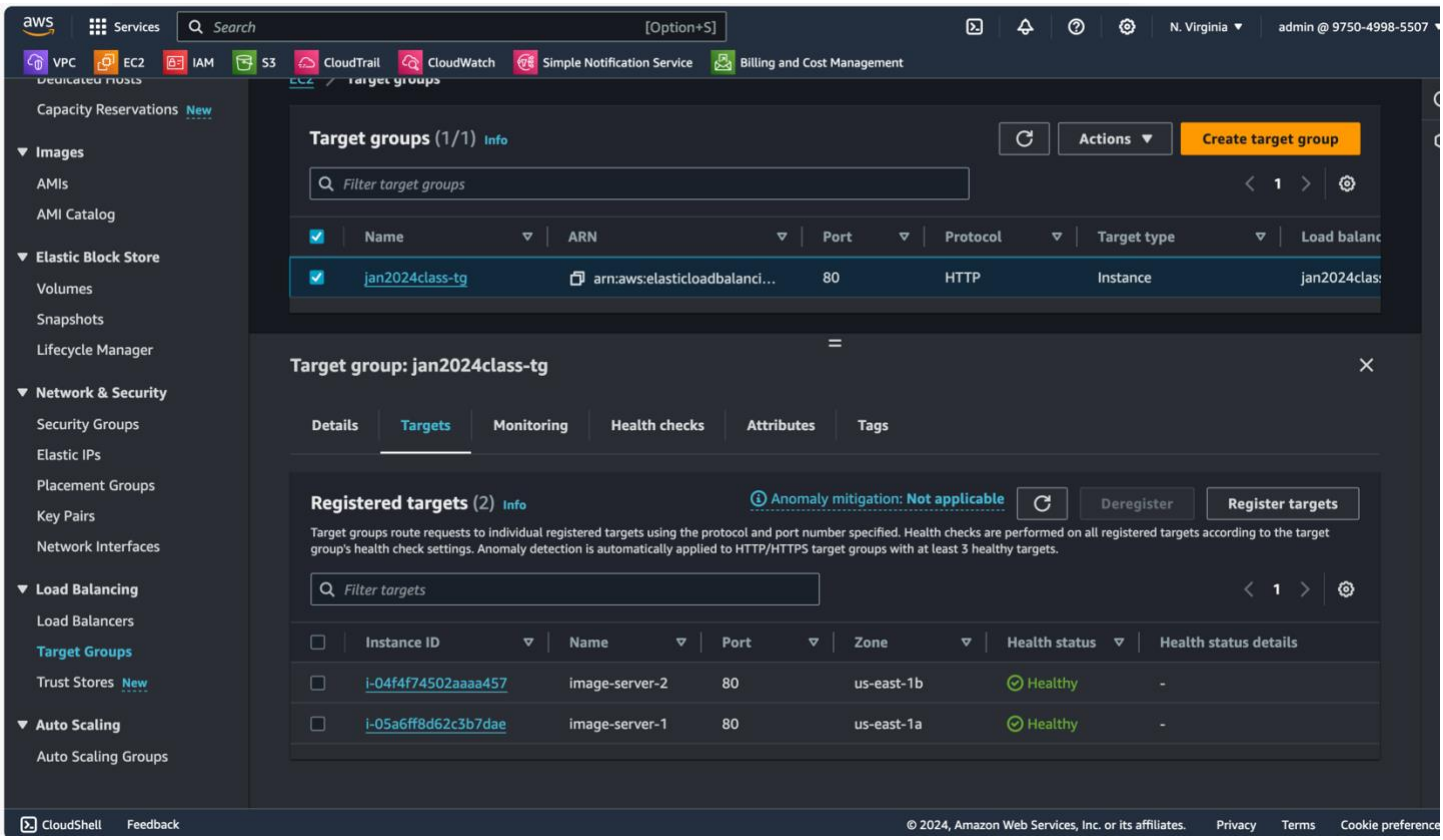
please observe the status (Health status details)



4; Create an Application Load Balancer (ALB) ——> name: “jan2024class-alb”jan2024class-alb > click on Listener and take a screenshot

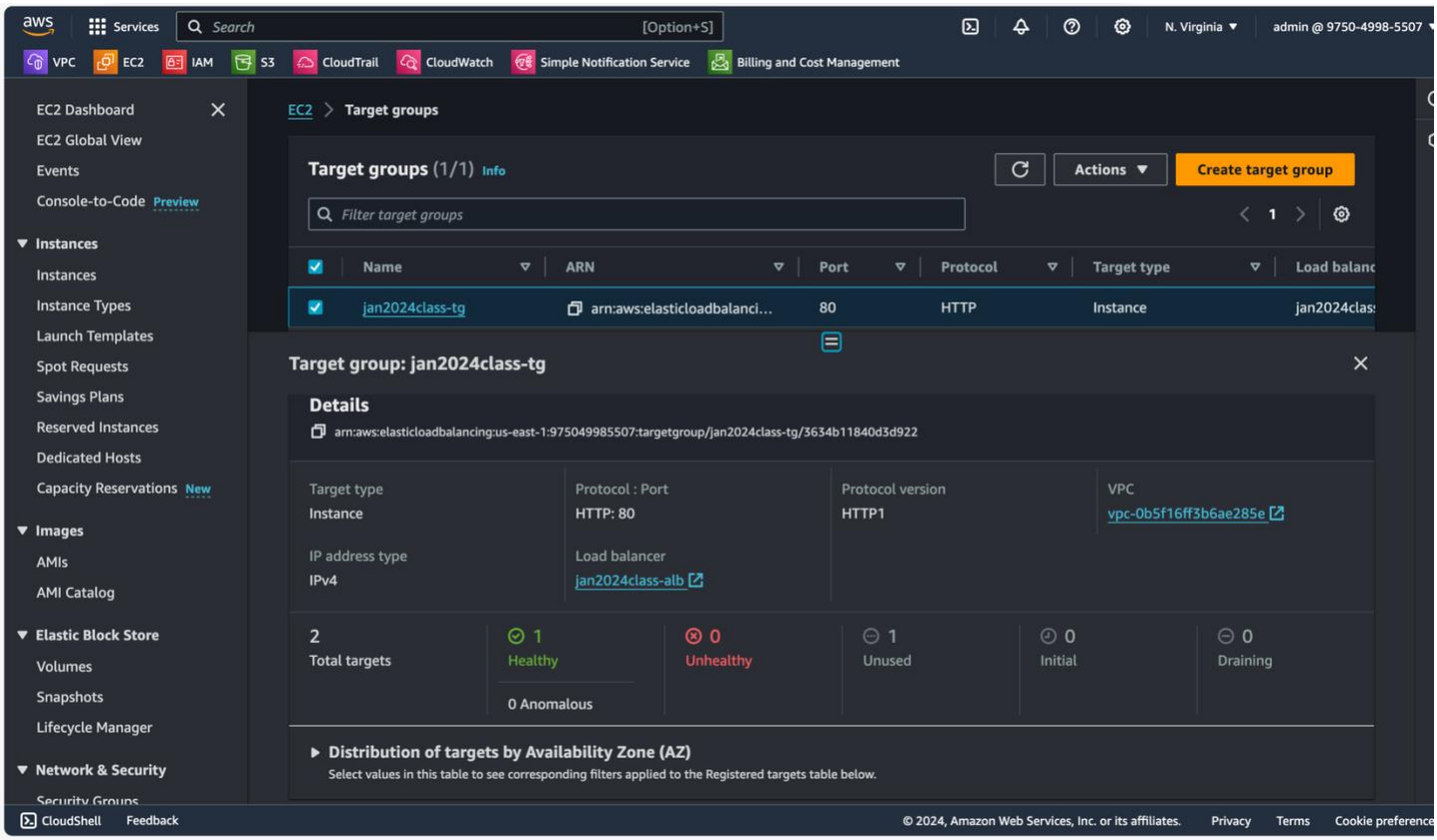


5: Observe the target group status again in the console (take a screenshot when it shows healthy)

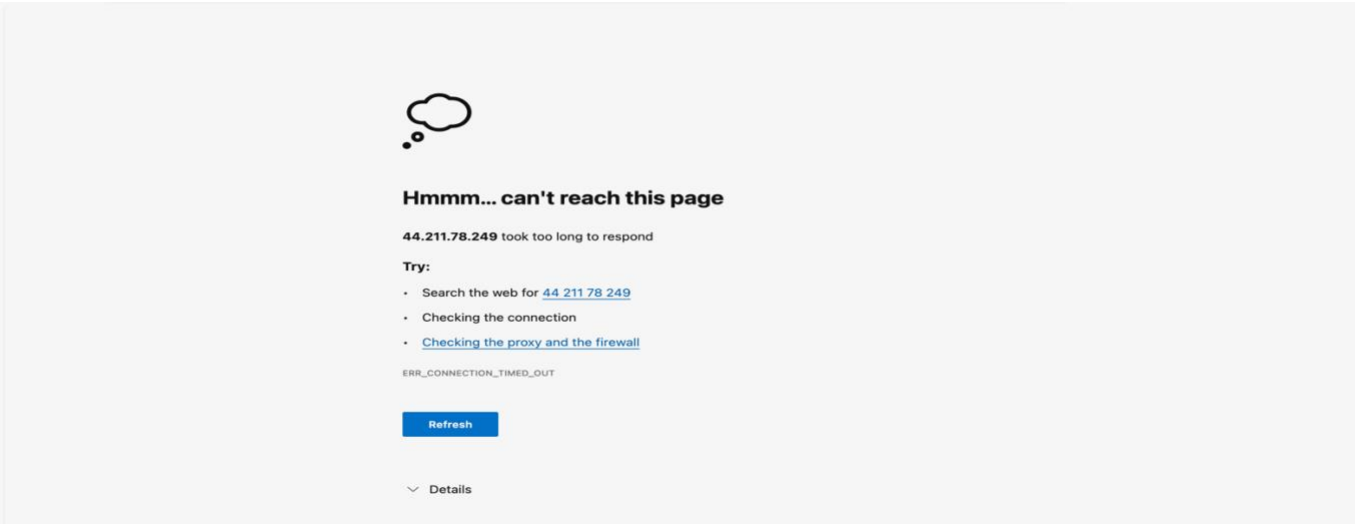


6: test your website in a browser using the ALB dns name and refresh multiple time (take screenshots of both Blue and Red)

7: stop webserver 1 and test again to see which server is now responding (take a screenshot)



8: clean up your environment by deleting in the reverse order that you created all resource (take screenshots of both Blue and Red)



9: clean up your environment by deleting in the reverse order that you created all resource

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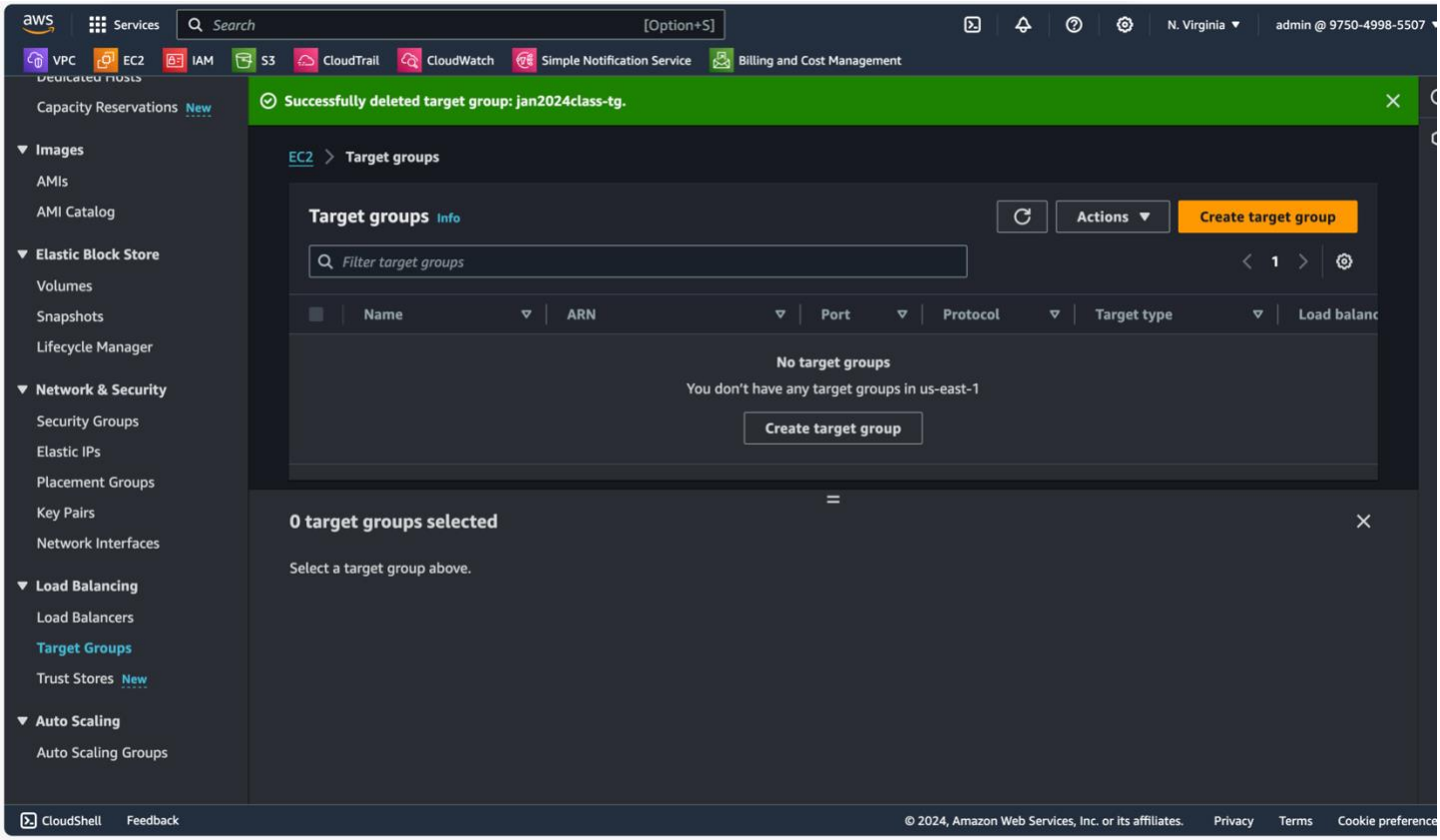

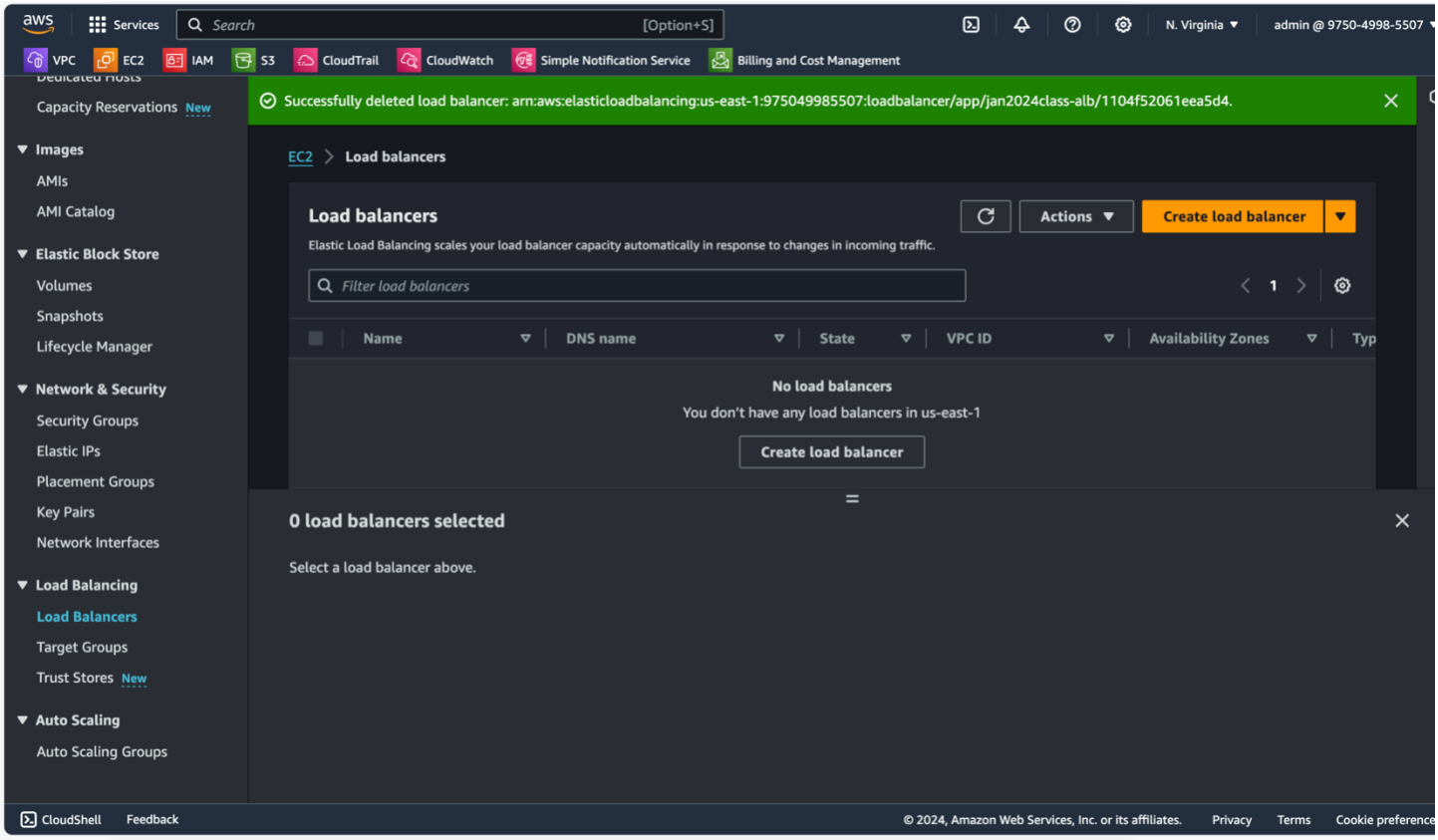
Services
Search
[Option+S]
N. Virginia
admin @ 9750-4998-5507
VPC
EC2
IAM
S3
CloudTrail
CloudWatch
Simple Notification Service
Billing and Cost Management
Capacity Reservations New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Load Balancers
Target Groups
Trust Stores New
Auto Scaling
Auto Scaling Groups
Successfully deleted load balancer: arn:aws:elasticloadbalancing:us-east-1:975049985507:loadbalancer/app/jan2024class-alb/1104f52061eea5d4.
EC2 > Load balancers
Load balancers
Actions
Create load balancer
Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.
Filter load balancers
Name
DNS name
State
VPC ID
Availability Zones
No load balancers
You don't have any load balancers in us-east-1
Create load balancer
0 load balancers selected
Select a load balancer above.
CloudShell
Feedback
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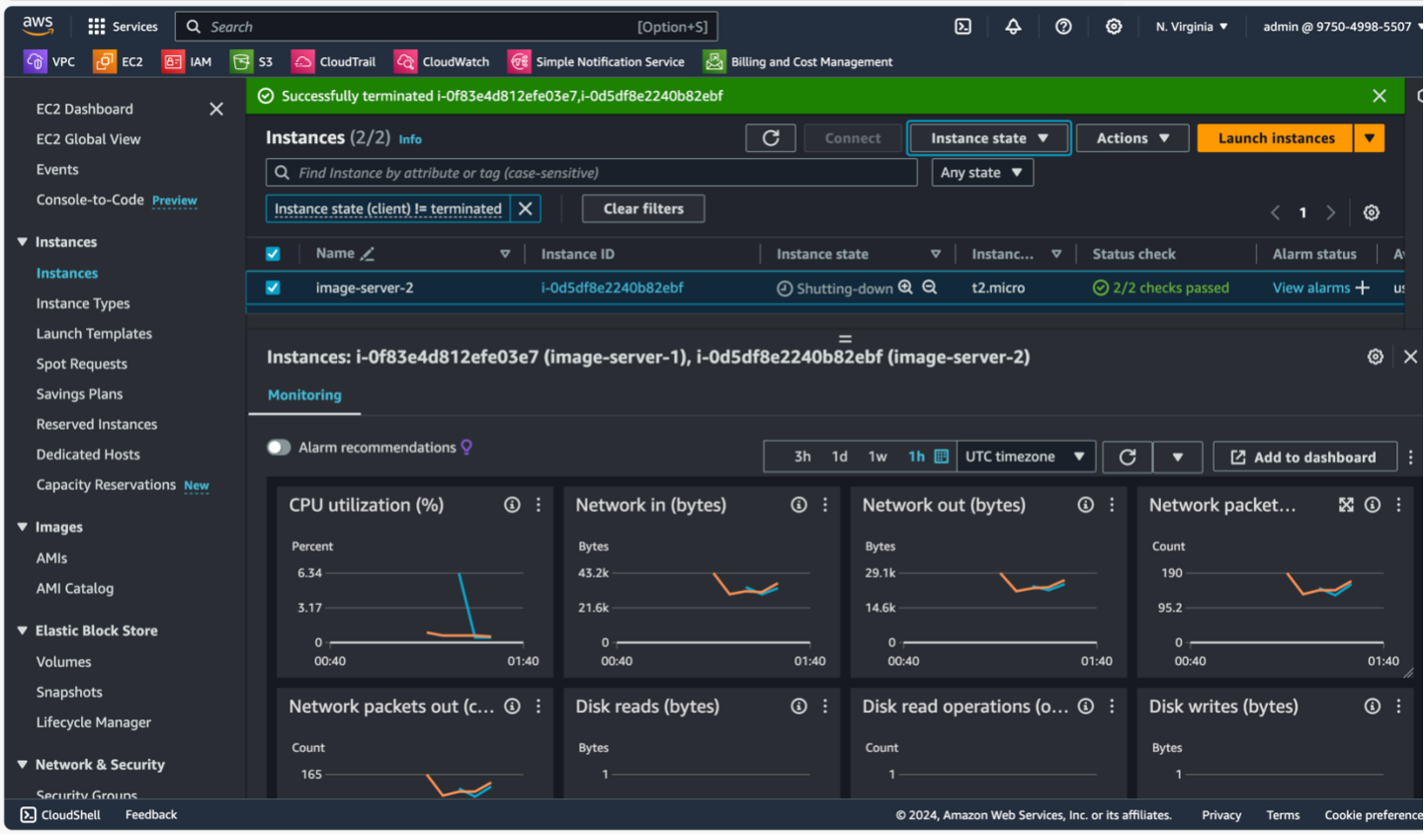
Services
Search
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admin @ 9750-4998-5507
VPC
EC2
IAM
S3
CloudTrail
CloudWatch
Simple Notification Service
Billing and Cost Management
EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Successfully terminated i-0f83e4d812efe03e7,i-0d5df8e2240b82ebf
Instances (2/2) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Any state
Instance state (client) != terminated
Clear filters
Name
Instance ID
Instance state
Instanc...
Status check
Alarm status
image-server-2
i-0d5df8e2240b82ebf
Shutting-down
t2.micro
2/2 checks passed
View alarms
Instances: i-0f83e4d812efe03e7 (image-server-1), i-0d5df8e2240b82ebf (image-server-2)
Monitoring
Alarm recommendations
3h
1d
1w
1h
UTC timezone
Add to dashboard
CPU utilization (%)
Percent
6.34
3.17
0
00:40
01:40
Network in (bytes)
Bytes
43.2k
21.6k
Network out (bytes)
29.1k
14.6k
Network packet...
Count
190
95.2
Network packets out (c...
165
Disk reads (bytes)
Disk read operations (o...
Disk writes (bytes)
CloudShell
Feedback
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